

- BOE-C6-0189077

E. WARNING PROPERTIES (ODOR, IRRITATION TO EYES, NOSE OR THROAT): None

F. ESTIMATED THRESHOLD LIMIT VALUE (IF NOT ON CURRENT LIST BY AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS): ?

8. CHEMICAL AND PHYSICAL PROPERTIES:

A. SPECIFIC GRAVITY (WATER = 1) 1.05 g/cc B. VAPOR DENSITY (AIR = 1) Neutralization #ASTM D-

C. VAPOR PRESSURE mm Hg AT 25°C. psi at 100°F 0 D. pH 664 14.8 (1)

E. CORROSIVE ACTION ON COMMON MATERIALS SUCH AS: ALUMINUM, MAGNESIUM, PLEXIGLASS, RUBBER, LACQUERS, ENAMELS, FABRICS: Compatible with glass, metals, rubber, enamels, and most plastics such as polyethylene. Solvent to most paper coatings. Should be stored in metal or glass containers having polyethylene lined closures.

F. DOES THE MATERIAL DECOMPOSE WHEN EXPOSED TO AIR? WATER? HEAT? STRONG OXIDIZERS? Will hydrolyze when exposed to water and atmospheric moisture.

G. FOR MIXTURES GIVE THE PERCENTAGE COMPOSITION OF INGREDIENTS:

COMPOUND	PERCENT
<u>2,2'-oxybis (4,4,6-trimethyl-1,3,2 dioxaborinane)</u>	<u>95</u>
<u>2,2'-(1-methyltrimethylenedioxy)bis- (4-methyl-1,3,2-dioxaborinane)</u>	<u>5</u>
<u>Petroleum Naptha</u>	<u>5</u>

NOTE:

GENERALIZATIONS SUCH AS PETROLEUM HYDROCARBONS, ALCOHOLS, KETONES, CHLORINATED HYDROCARBONS, ETC. ARE NOT ADEQUATE FOR TOXICOLOGICAL EVALUATION. PROPER CHEMICAL NAMES MUST BE KNOWN.

H. DOES THE MATERIAL GENERATE HEAT THROUGH POLYMERIZATION OR CONDENSATION? No

9. PRECAUTIONS FOR NORMAL CONDITIONS OF USE: BIOBOR should be protected from water
contamination. Avoid contact with the eyes and prolonged exposure to the
skin. Do not take internally.
10. RECOMMENDED PROTECTIVE EQUIPMENT: Face shield and rubber gloves.
11. A. FLASH POINT °F: CLOSED CUP _____; OPEN CUP _____; IF F.P. CHANGES DURING
EVAPORATION GIVE DATA: _____
Using ASTMD-56 102° F Using ASTMD -92 135° F.
- B. EXPLOSIVE LIMITS (% VOL. AIR): None LOWER _____; UPPER _____
- C. SUSCEPTIBILITY TO SPONTANEOUS HEATINGS: YES _____; NO X
- D. FIRE POINT °F 250° F.; AUTO IGNITION TEMPERATURE °F ?
- E. VAPOR DENSITY ? Molecular weight (2) ASTM 2503 191
- F. WHAT PRODUCTS MIGHT BE FORMED IN THE EVENT OF FIRE OR ABNORMAL TEMPERATURES? _____
- G. SUITABLE EXTINGUISHING AGENTS: _____
12. INFORMATION FURNISHED BY: William Zive
TITLE: Senior Technical Representative
COMPANY: U.S. Borax & Chemical Corporation
ADDRESS: 50 Rockefeller Plaza, New York, N.Y. 10020
DATE: June 9, 1969

NOTE: INFORMATION IN REGARD TO A MATERIAL'S COMPOSITION WILL BE TREATED AS CONFIDENTIAL AND USED FOR THE PURPOSE OF PROTECTING THE HEALTH AND SAFETY OF MCDONNELL DOUGLAS CORP. EMPLOYEES AND THE SAFEGUARDING OF ITS PROPERTY. IT WILL ALSO BE USED FOR THE PURPOSE OF COMPLYING WITH LOCAL, STATE AND FEDERAL ORDINANCES, LAWS AND CODES, AND REQUIREMENTS OF GOVERNMENTAL AGENCIES.

THE COMPLETED FORM SHOULD BE RETURNED TO PURCHASING, DOUGLAS AIRCRAFT DIVISION, LONG BEACH, CALIF. 90801.

- (1) Expressed as milligrams KOH required to neutralize all acidic constituents in 1 gram of sample.
- (2) Mol.wt. of hydrocarbons by thermo-electric measurement of vapor pressure using vapor pressure osmometer and benzene as the reference standard.